SERV. 31087

THOMSON MULTI MEDIA

Brandt FERGUSON SABA TELEFUNKEN THOMSON

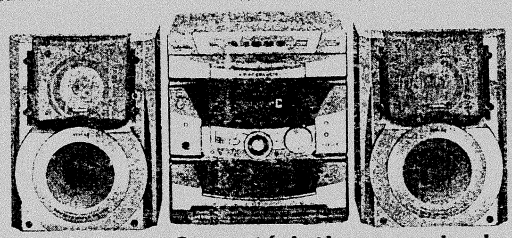
AUDIO

SERVICE MANUAL
DOCUMENTATION TECHNIQUE
TECHNISCHE DOKUMENTATION
DOCUMENTAZIONE TECNICA
DOCUMENTACION TECNICA

THOMSON **ALTIMA 3200**
ALTIMA 3205

Version (PC*): A

PC: The version code is indicated either in the battery compartment or on the back of the unit - ce code version est indiqué dans le compartiment à piles ou au dos de l'appareil - PC: Version des Geräts wird im Batteriefach oder auf der Rückseite angegeben - il codice della versione è indicado nello scompartimento delle batterie o sul retro dell'apparecchio - el código de la versión está indicado en el compartimento de las pilas o en la parte trasera del aparato



Technical data - Caractéristiques principales
Technische Daten - Dati tecnici - Caracteristicas del aparato

Type of set :	Cassette radio recorder / compact disc
Type d'appareil :	Combiné radio cassette / CD
Geräteart :	CD-Radio Cassetten Portable
Tipo d'apparecchio :	Insieme radio cassette / CD
Tipo de aparato :	Radio cassette / CD

306 mm × 329 mm × 365 mm — 4,8 kg

Power supply : Alimentation : Stromversorgung : Alimentazione : Alimentación :	230 V ~ 50HZ ⎓
Nominal output power : Puissance nominale de sortie : Nennausgangsleistung : potenza nominale di uscita : Potencia nominal de salida :	2 x 12,5 W Main speaker 2 x 25 W Mid Woofer

Sensitivity : Sensibilité : Empfindlichkeit : Sensibilità : Sensibilidad :	FM - MF :	4 µV (S/N = 26 dB)
	MW - PO :	600 µV/m (S/N = 20 dB)
	LW - GO :	1500 µV/m (S/N = 20 dB)
FM - MF :		87.5 - 108 MHz
MW - PO :		520 - 1710 kHz
LW - GO :		150 - 283 kHz

Frequency response : Courbe de réponse : Frequenzgang : Curva di risposta : Curva de respuesta :	125 kHz - 8 kHz (-5 dB)
Signal to noise ratio : Rapport signal / bruit : Geräuschspannungsabstand : Rapporto segnale / disturbo : Relación señal / ruido :	42 dB

Wow and fluttter : Fluctuations : Gleichlauf : Fluttuazioni : Fluctuaciones :	0,2 %
→	4,75 cm/s
<< ▶▶ >> << ◀◀ >>	C60 170 s

Disc rotation speed : Vitesse de rotation du disque : CD-Drehgeschwindigkeit : Velocità di rotazione del disco : Velocidad de rotación del disco :	200 ➡ 500 tr/m
Frequency response : Courbe de réponse : Frequenzgang : Curva di risposta : Curva de respuesta :	40 Hz - 20kHz (±2 dB)
Dynamic range : Gamme dynamique : Dynamikumfang : Dinamica : Dinámica :	82 dB
Signal to noise ratio : Rapport signal / bruit : Geräuschspannungsabstand : Rapporto segnale / disturbo : Relación señal / ruido :	60 dB

DAD

WARNING : *Before servicing this chassis read the safety recommendations.*
ATTENTION : *Avant toute intervention sur ce châssis, lire les recommandations de sécurité.*
ACHTUNG : *Vor jedem Eingriff auf diesem Chassis, die Sicherheitsvorschriften lesen.*
ATTENZIONE : *Prima di intervenire sullo chassis, leggere le norme di sicurezza.*
IMPORTANTE : *Antes de cualquier intervención, leer las recomendaciones de seguridad.*

Code : 351 230 40 - 0700 / 3,3M - CRKD2521 Print.

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FOXEL
59-225 CHOJNÓW SKR. POCZT. 19
TEL./FAX (076) 8-187-882
TEL. (076) 8-181-839

CLASS 1 LASER PRODUCT
APPAREIL A LASER DE CLASSE 1
LASER KLASSE 1
APARATO CON LASER DE CLASE 1
APPARECCHIO CON LASER DI CLASSE 1

DANGER :	**Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.**
ATTENTION :	**Le rayon laser est invisible. Eviter l'exposition directe lors de la maintenance.**
VORSICHT BEI REPARATUREN :	**Bei geöffneter Schublade und Defekt der Sicherheits - vorrichtungen besteht die Gefahr unsichtbaren Laserlichts. Niemals direkt in den Laserstrahl sehen.**
ATTENZIONE :	**Il raggio laser è invisible. Evitare l'esposizione diretta durante la manutenzione.**
IMPORTANTE :	**El rayo laser es invisible. Evitar la exposición directa en el momento del mantenimiento.**

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DIGITAL PROCESSING SCHEMATIC DIAGRAM - SCHEMA DU TRAITEMENT DIGITAL - SCHALTBILD DIGITALVERARBEITUNG - SCHEMA ELABORAZIONE DIGITALE - ESQUEMA DEL TRATAMIENTO DIGITAL

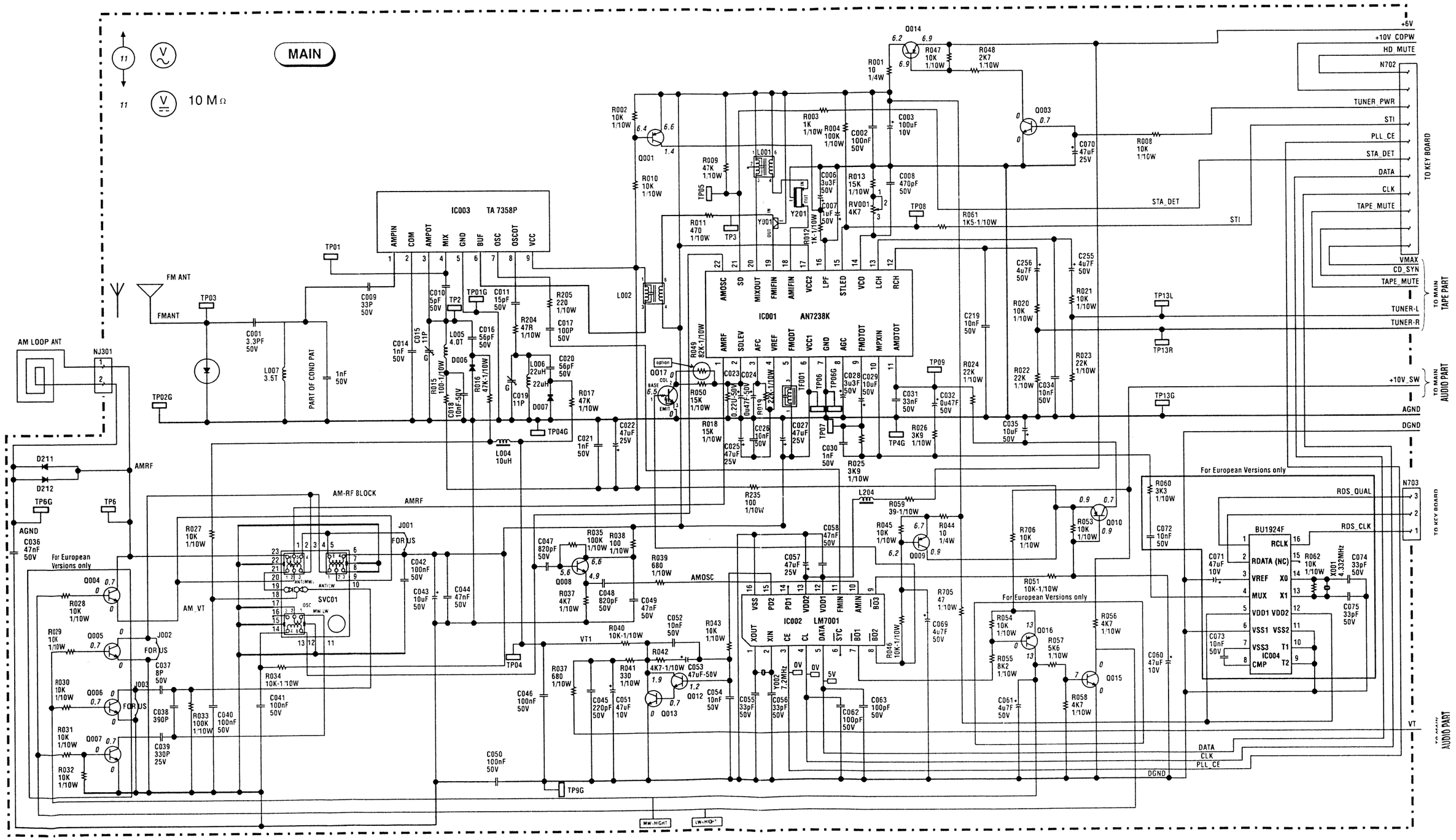
The complete Digital Prcessing Module is available from A.S.S. under Part Number :
En SAV, l'ensemble du module traitement digital est géré sous le code :
Die Sevice Bestell-Nr. für das Modul "Digital Processing kompl." ist :
Il codice del modulo completo di elaborazione digitale è :
En postventa, el modulo completo tratamiento digital lleva el côdigo :

106 638 90

P005

9	8	7	6	5	4	3	2	1
CD_L	AGND	CD_R	+V1CC	SDATA	GND	SCLK	+5V	CD_RESET

MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - GRUNDPLATTE SCHALTBILD - SCHEMA DELLA PIASTRA PRINCIPALE - ESQUEMA DE LA PLATINA PRINCIPAL (TUNER PART)



ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONE - AJUSTES

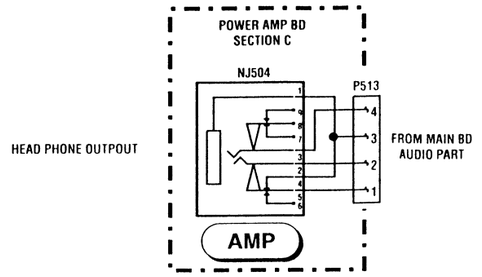
AM alignment

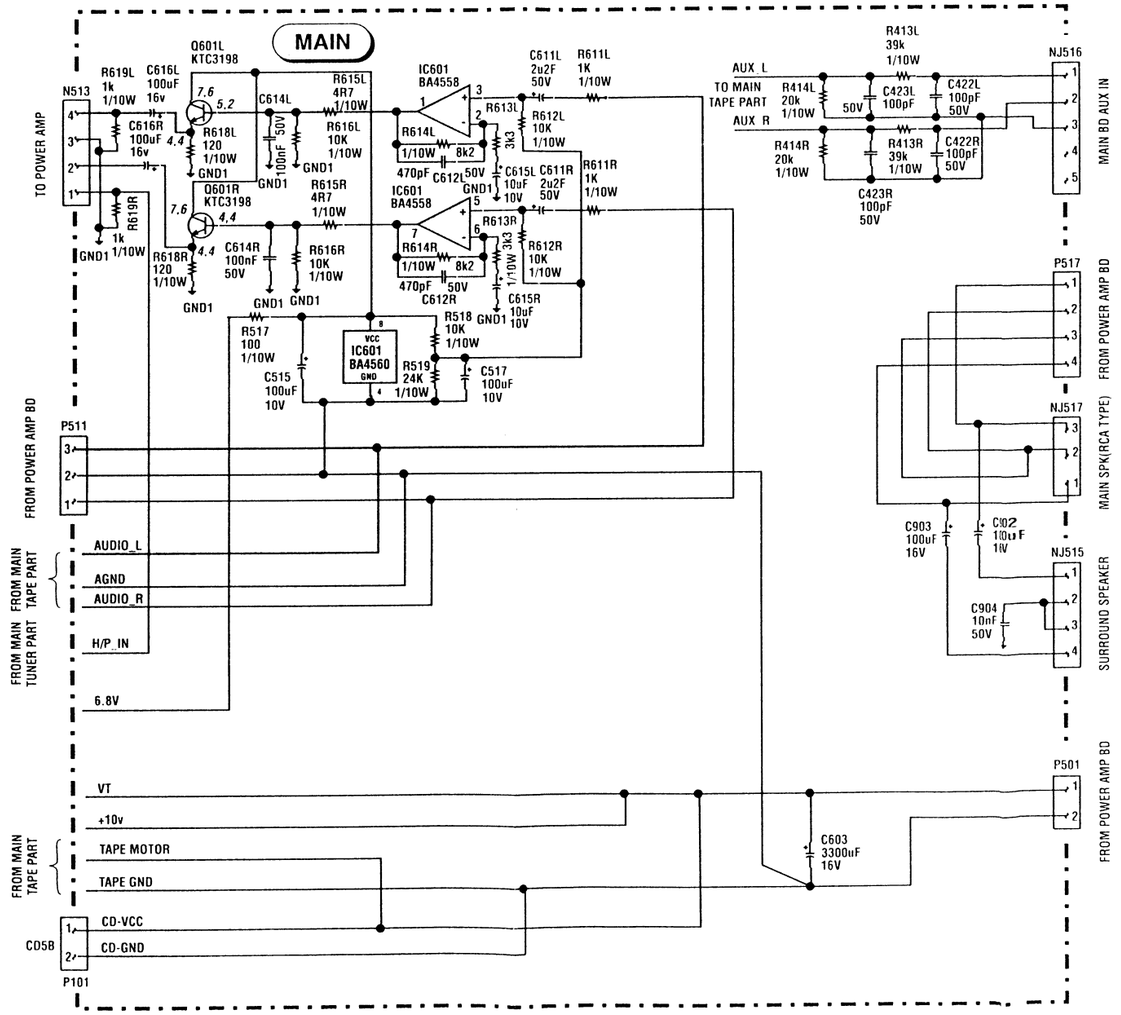
		Gf or TP	f	18888 KHZ	L001	TP 09	
IF	1		450 kHz				
MW GO	2	Gf	522 kHz	522 kHz		TP04	1.4 v
	3		1620 kHz	1620 kHz		TP04	5.7 v
LW GO	1	Gf	150 kHz	150 kHz			1.1v
	2		283 kHz	283 kHz			5.8 v

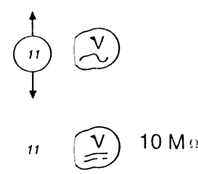
FM alignment

		Gf or TP	f	18888 KHZ	L002 TF001	TP 13L/R TP13G	
IF	1	TP01 - TP01G	10.7 MHz	10.7 MHz			
FM	2	Gf TP03 TP02G	87.5 MHz	87.5 MHz	L006	TP04	1.0v
	3		108 MHz	108 MHz		TP04	7.0 v
	4		90.10 MHz	90.10 MHz	L005	TP13L/R	Amplitude Max.
	5		106.10 kHz	106.10 kHz	C015	TP13L/R	Amplitude Max.
	6	Gf	98.10 MHz	98.10 MHz	TF001	TP05	
FM ST	7		98.10 MHz	98.10 MHz	RV001	TP08	38KHz 100KHz

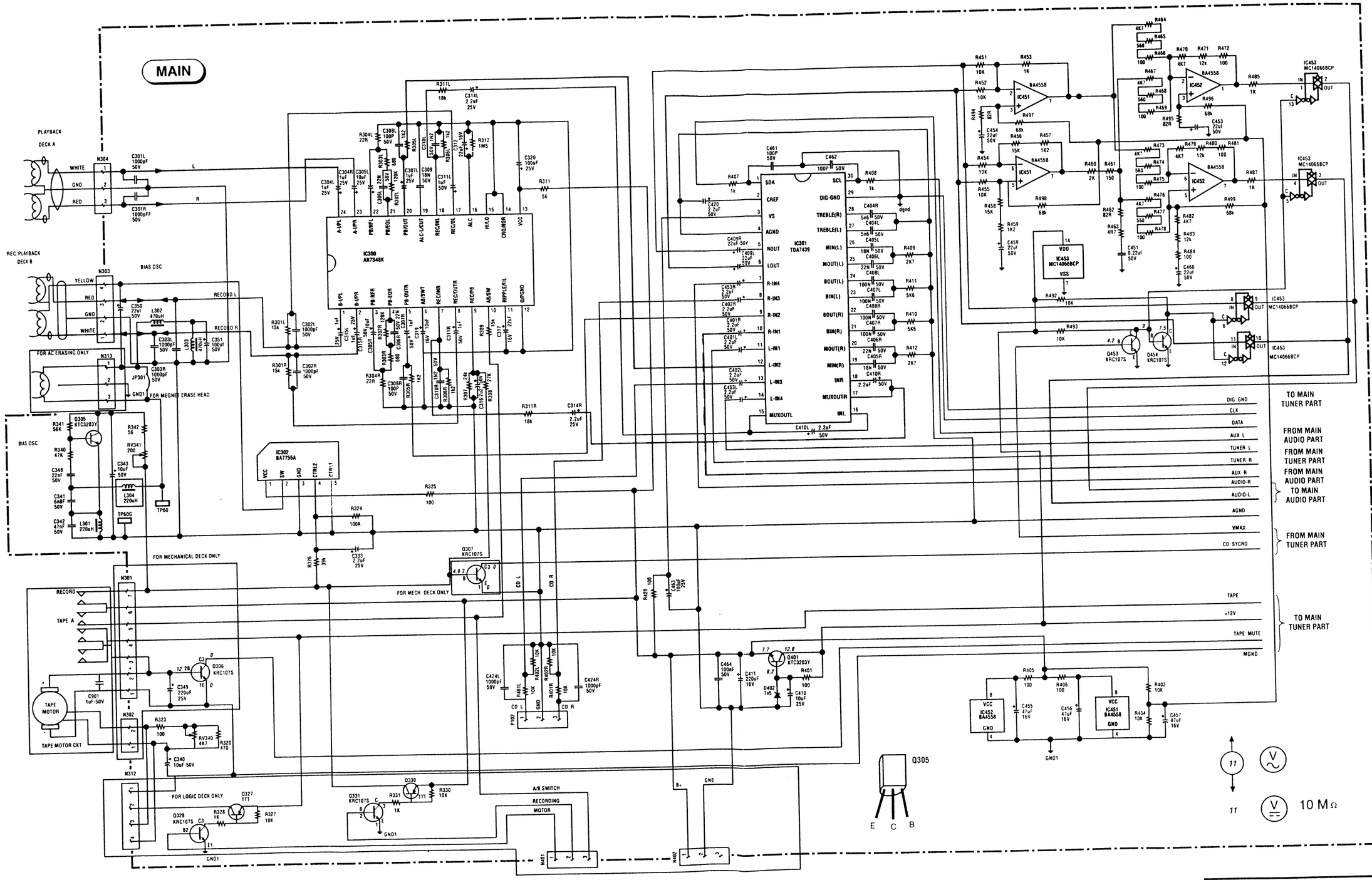
MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - GRUNDPLATTE SCHALTBILD - SCHEMA DELLA PIASTRA PRINCIPALE - ESQUEMA DE LA PLATINA PRINCIPAL (AUDIO PART)







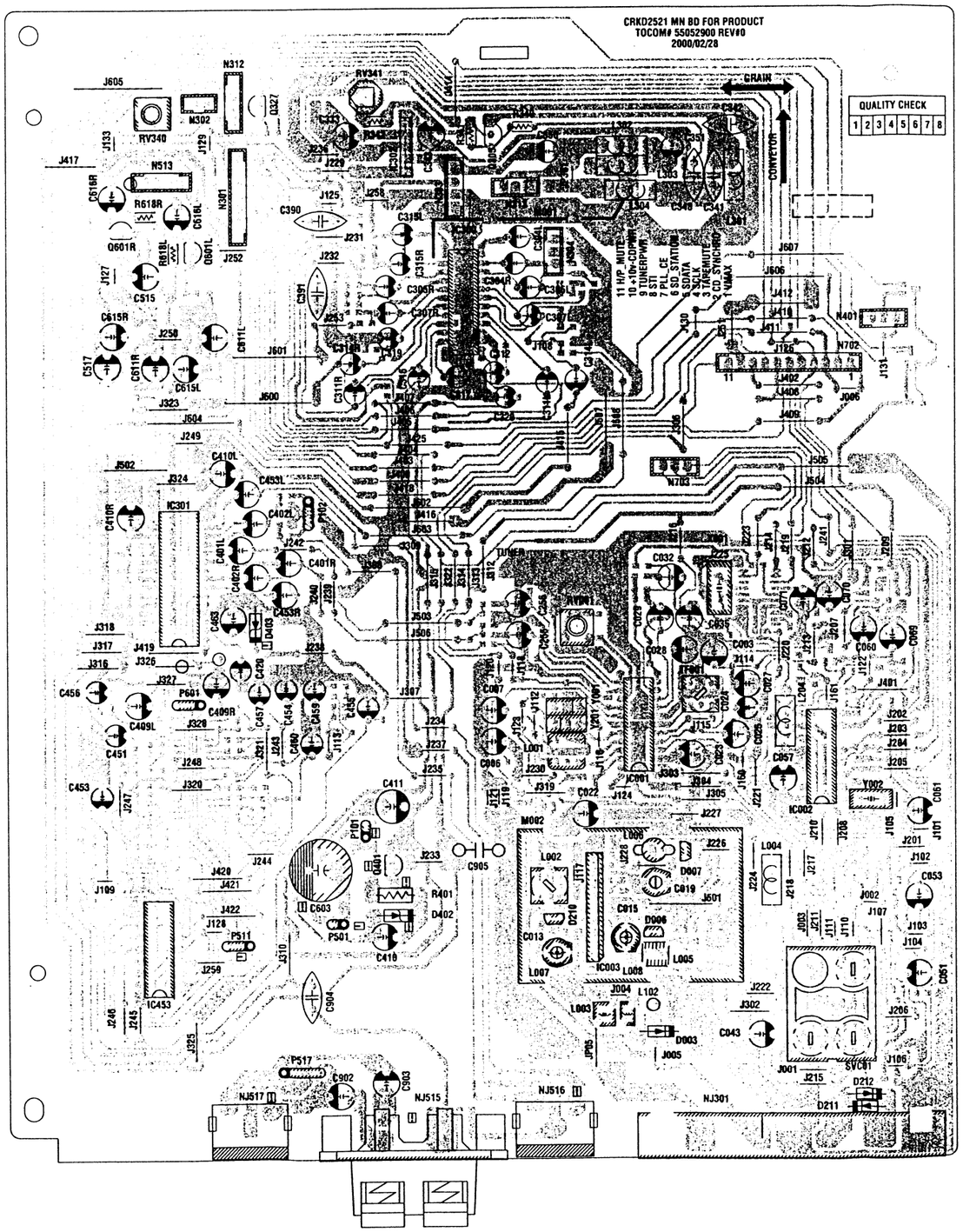
MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - GRUNDPLATTE SCHALTBILD - SCHEMA DELLA PIASTRA PRINCIPALE - ESQUEMA DE LA PLATINA (TAPE PART)



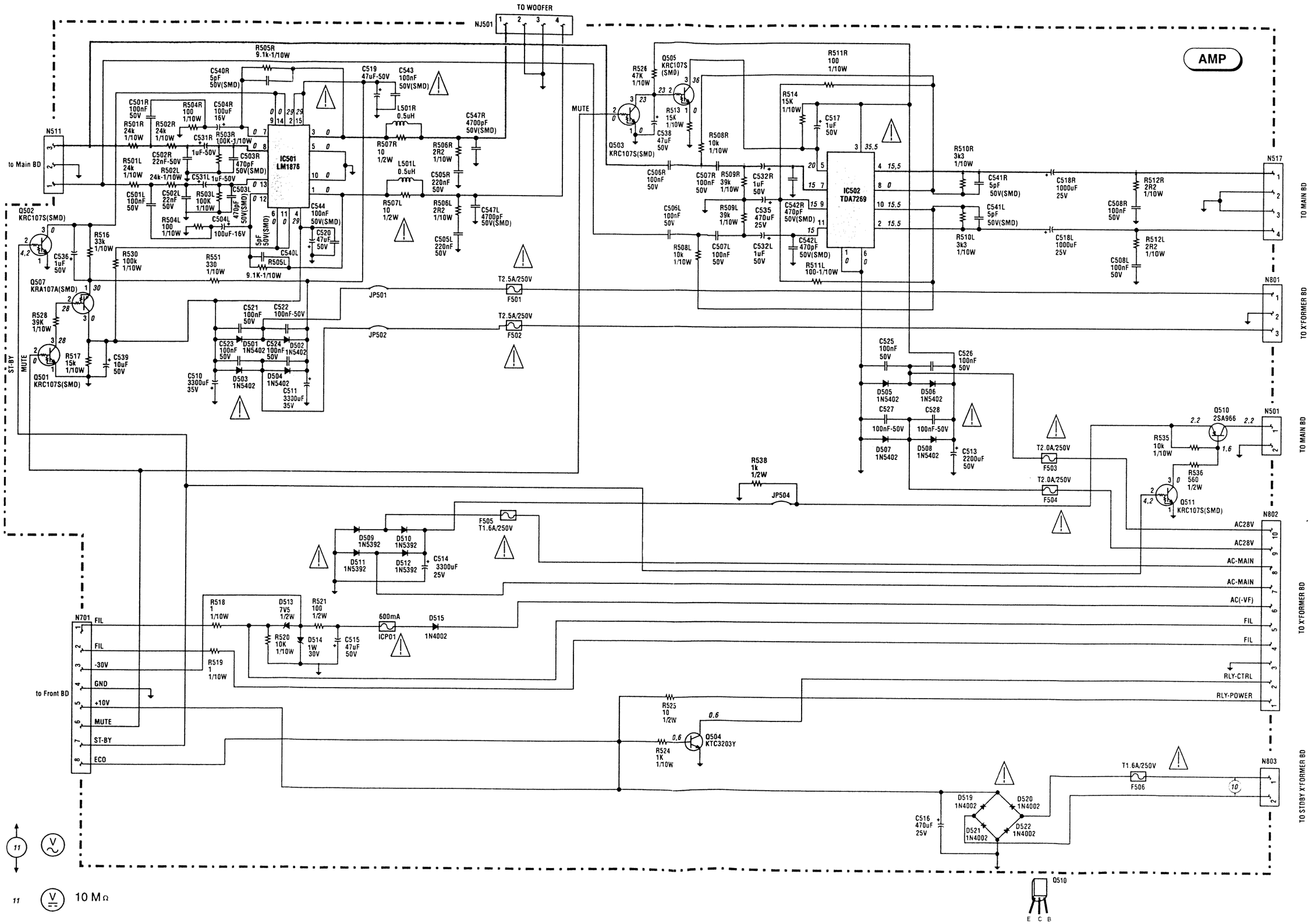
CRKD 252
First issue 07 / 0

Main P.C.B.
Platine principale
Grundplatte
Piastra principale
Platina principal

Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes



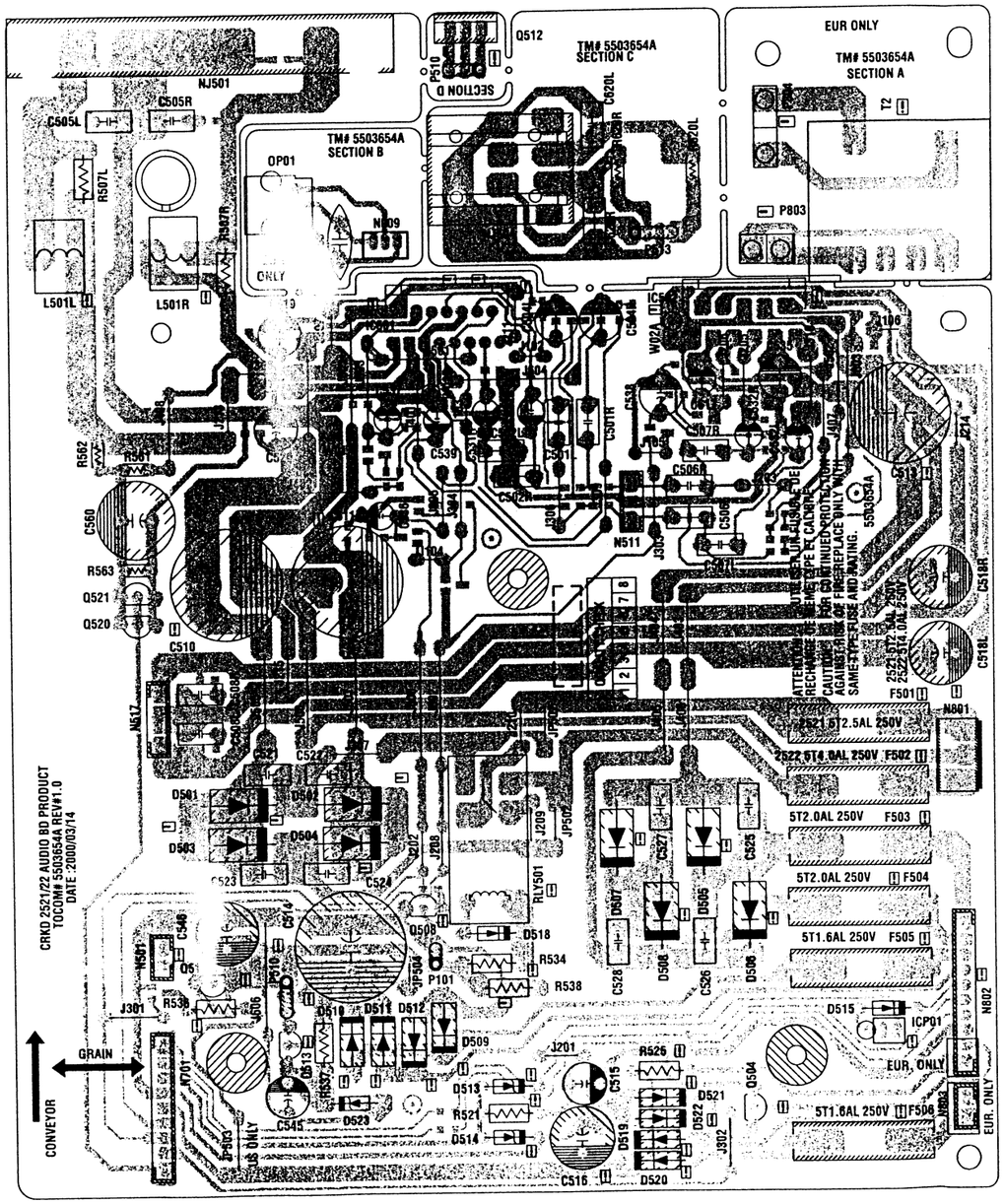
AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD ENDVERSTÄRKER - SCHEMA DEL AMPLIFICATORE - ESQUEMA DEL AMPLIFICADOR



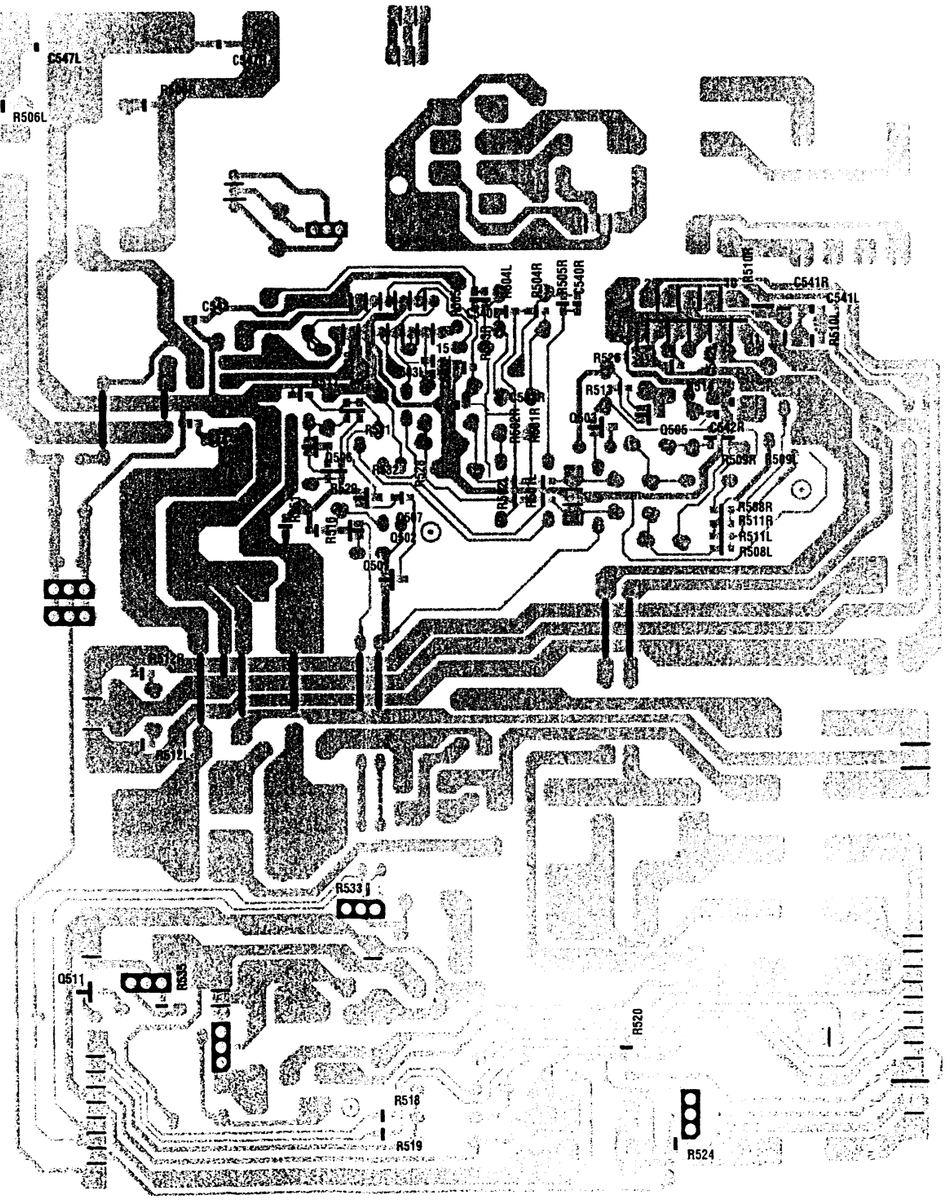
CRKD 2521
First issue 07 / 00

Amplifier P.C.B.
Platine amplificateur
Ltpl. Endverstärker
Piastra amplificatore
Platina amplificador

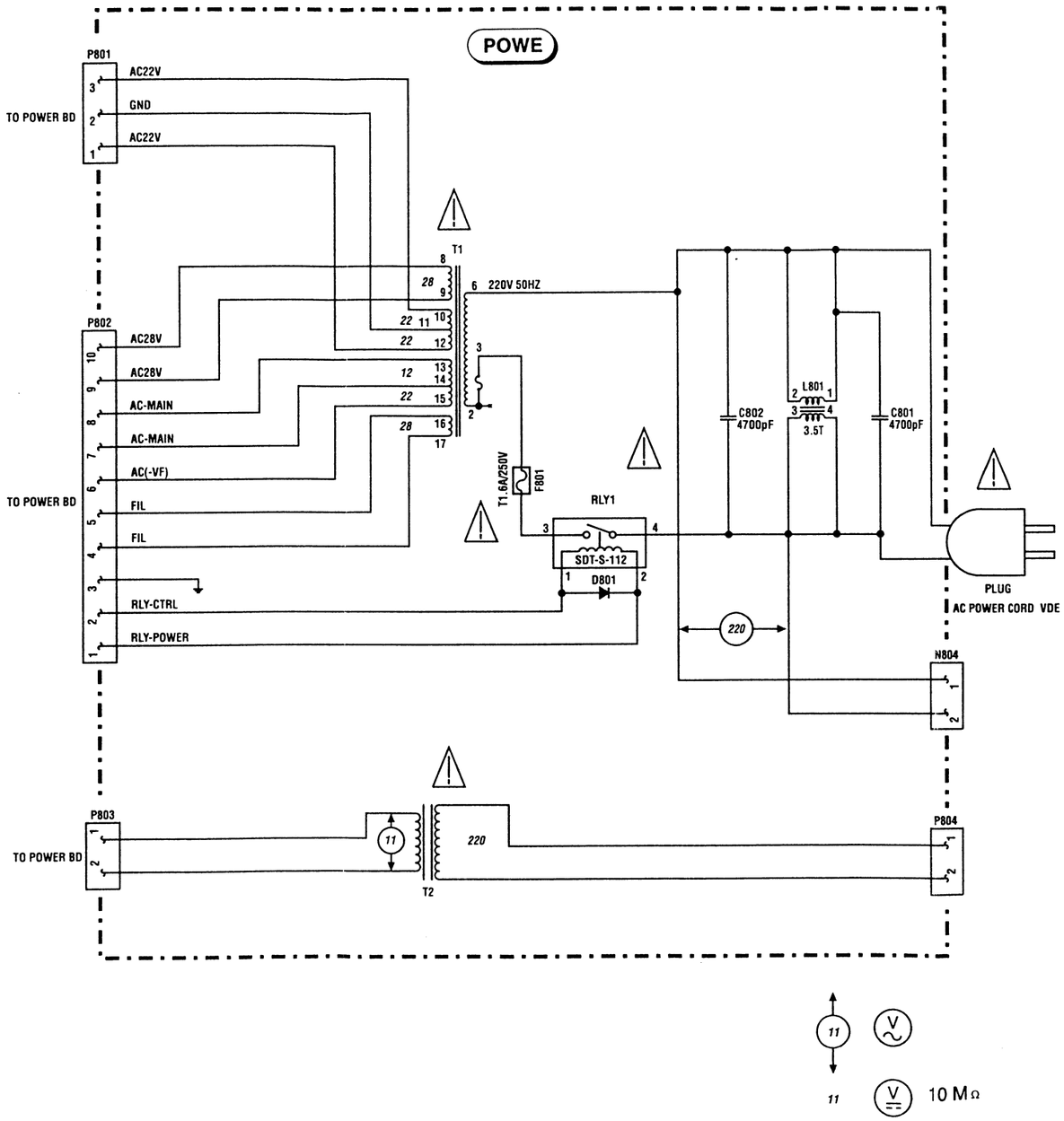
Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes



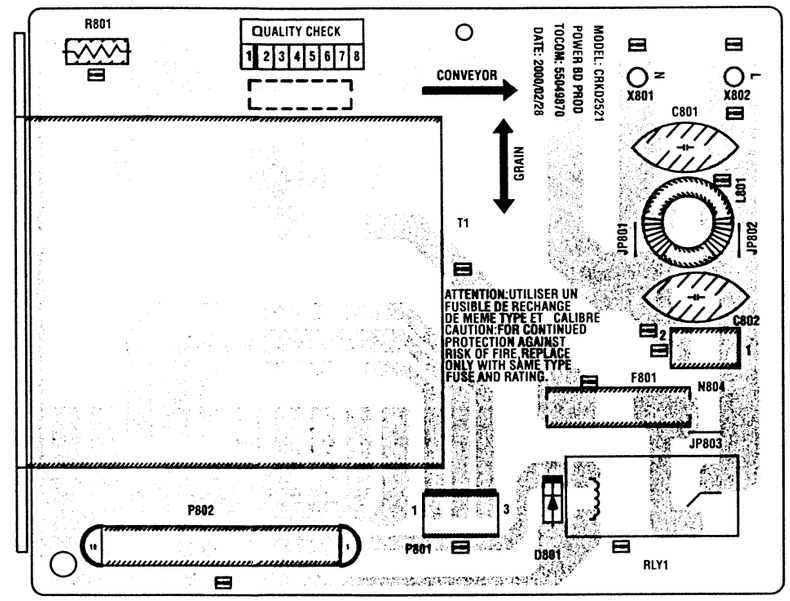
Solder side
Côté cuivre
Lötseite
Lato saldature
Lado del cobre



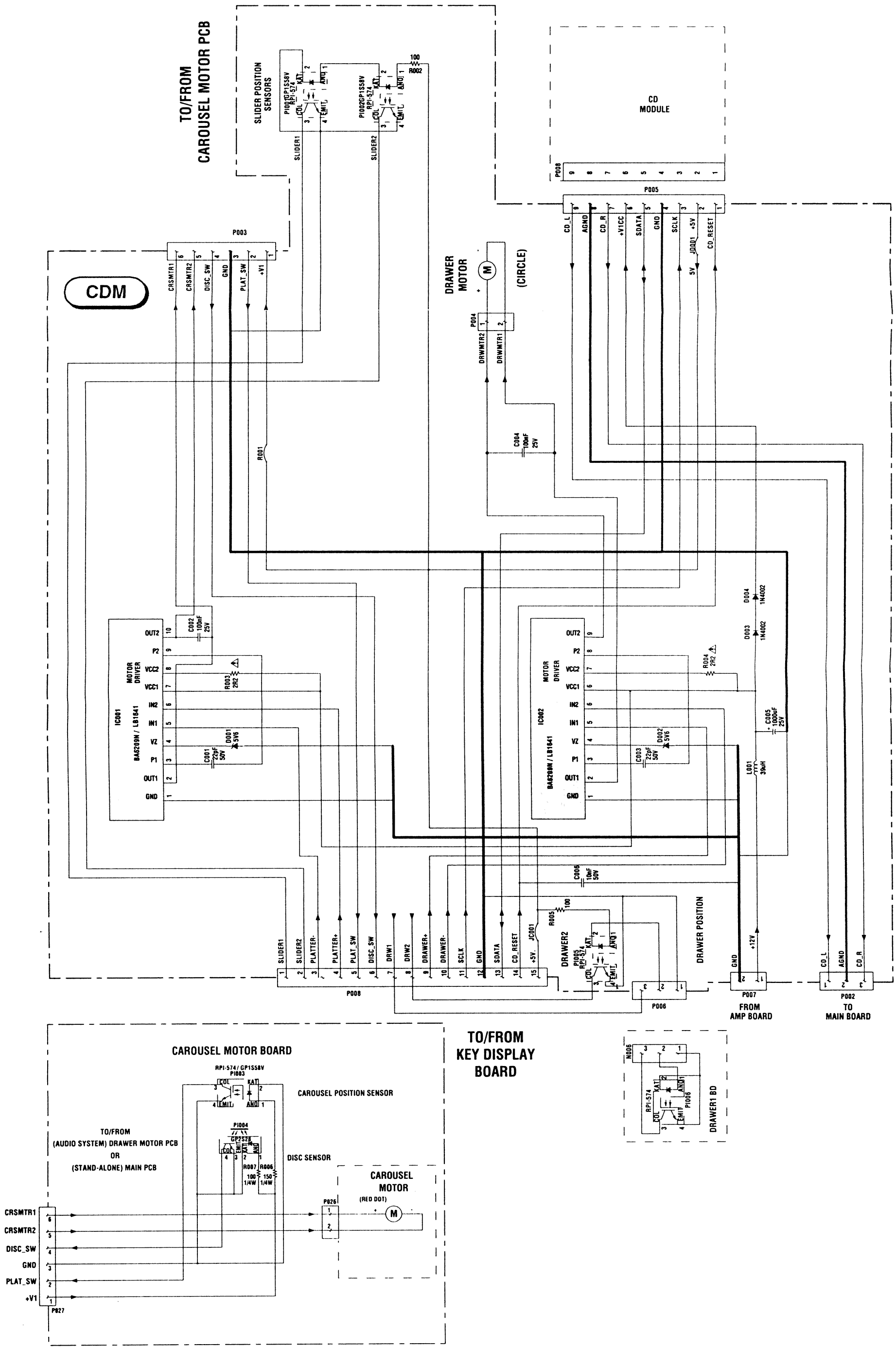
POWER SUPPLY SCHEMATIC DIAGRAM - SCHEMA DE L'ALIMENTATION - SCHALTBILD NETZTEIL - SCHEMA DEL ALIMENTAZIONE - ESQUEMA DE LA ALIMENTACIÓN



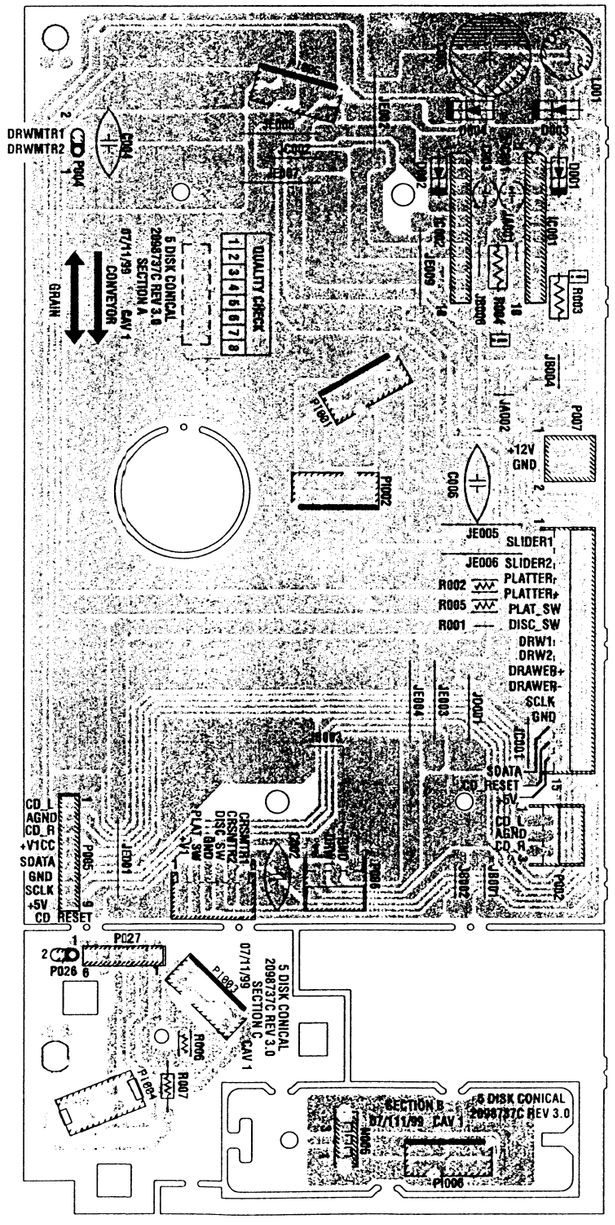
Power supply P.C.B.
Platine alimentation
Ltpl. Netzteil
Piastra alimentazione
Platina alimentación



CD CONTROL MODULE SCHEMATIC DIAGRAM - SCHEMA COMMANDES CD - CD ANZEIGE SCHALTBILD - SCHEMA COMANDI CD - ESQUEMA MANDOS CD



CD control P.C.B.
Platine commandes
Ltpl. CD Bedienteil
Piastra comandi CD
Platina de mandos CD

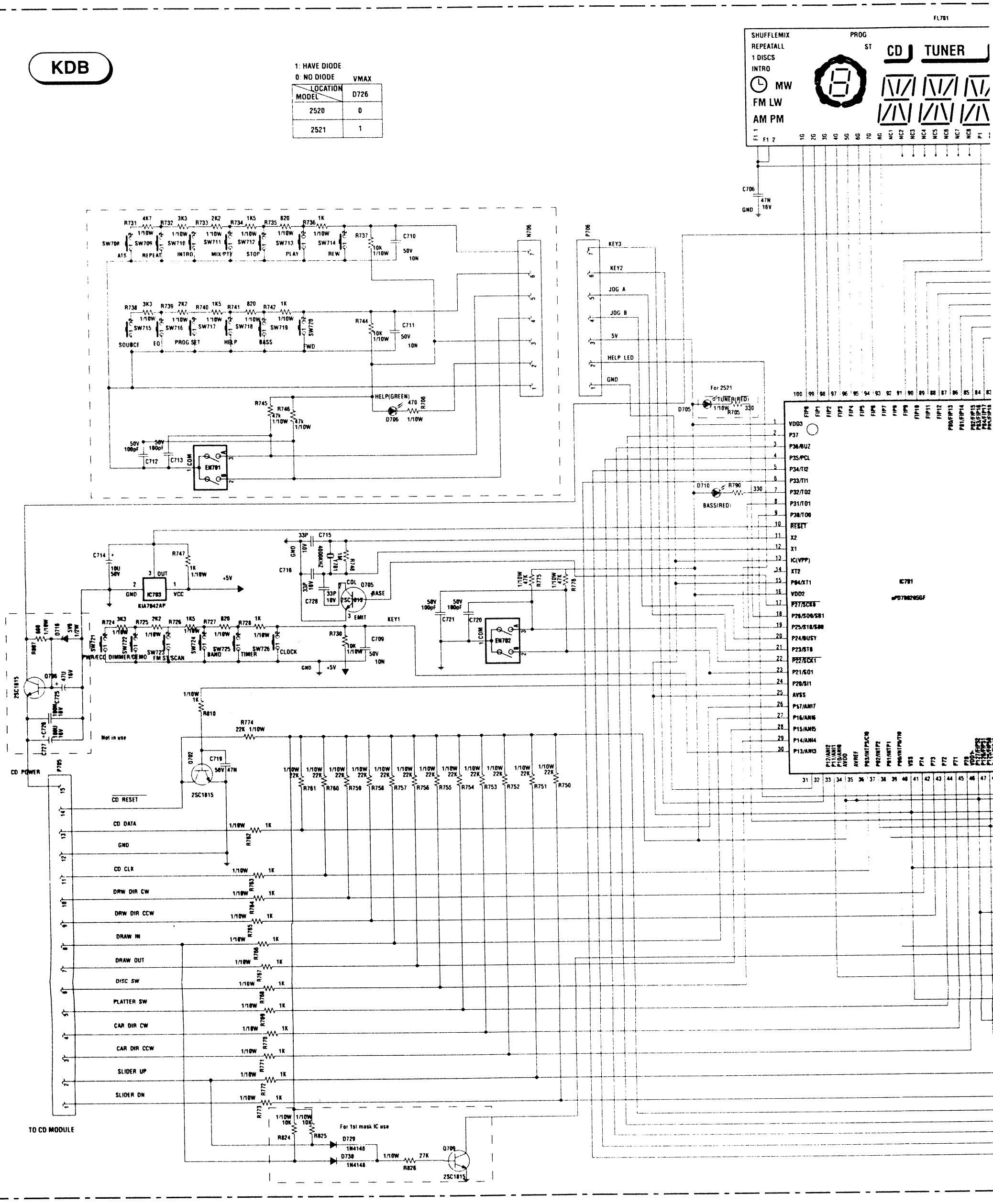


CONTROL / DISPLAY SCHEMATIC DIAGRAM - SCHEMA COMMANDES / AFFICHEUR - BEDIENTEIL ESQUEMA MANDOS / INDICADOR

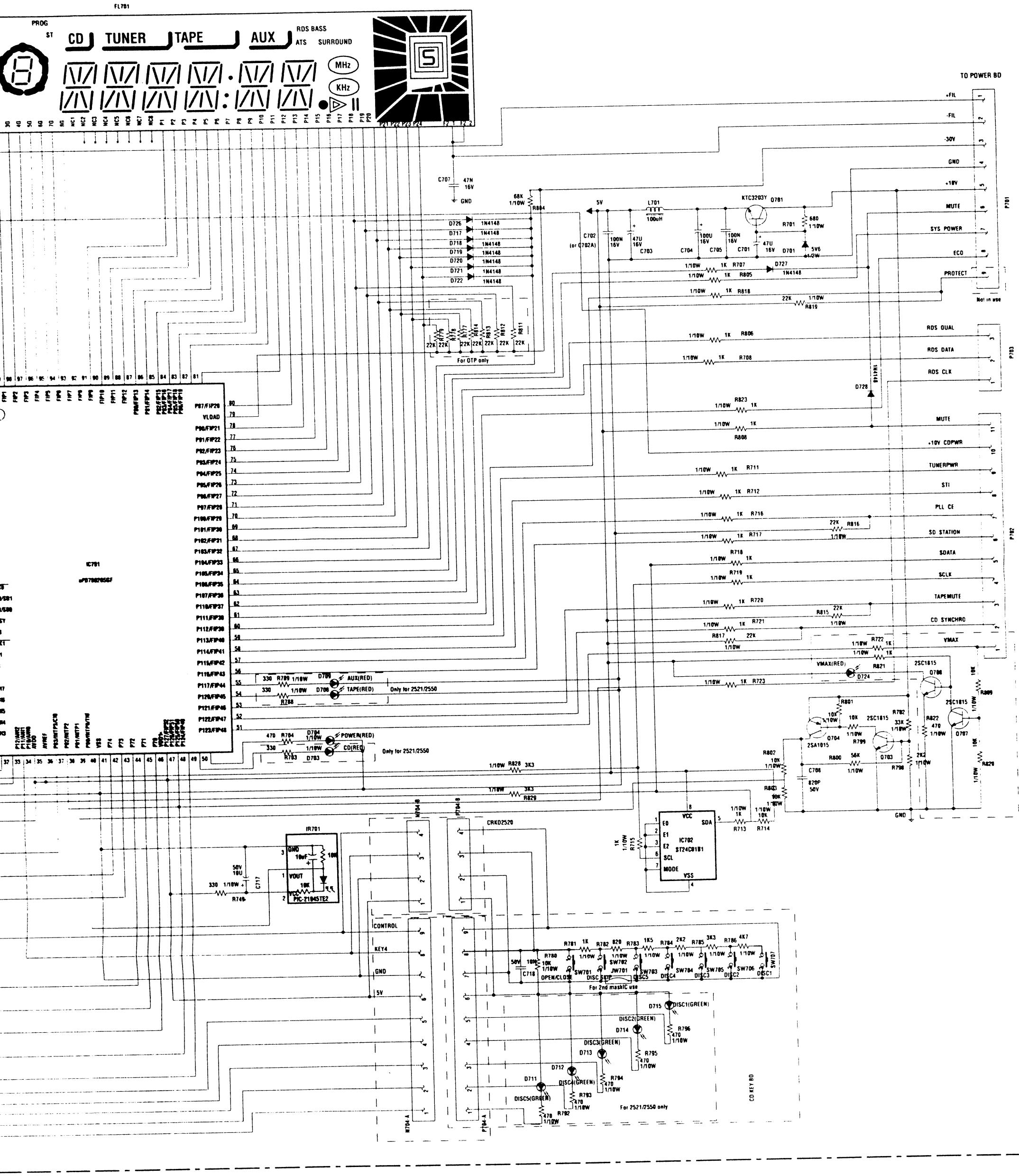
KDB

1: HAVE DIODE
0: NO DIODE

LOCATION / MODEL	VMAX D726
2520	0
2521	1

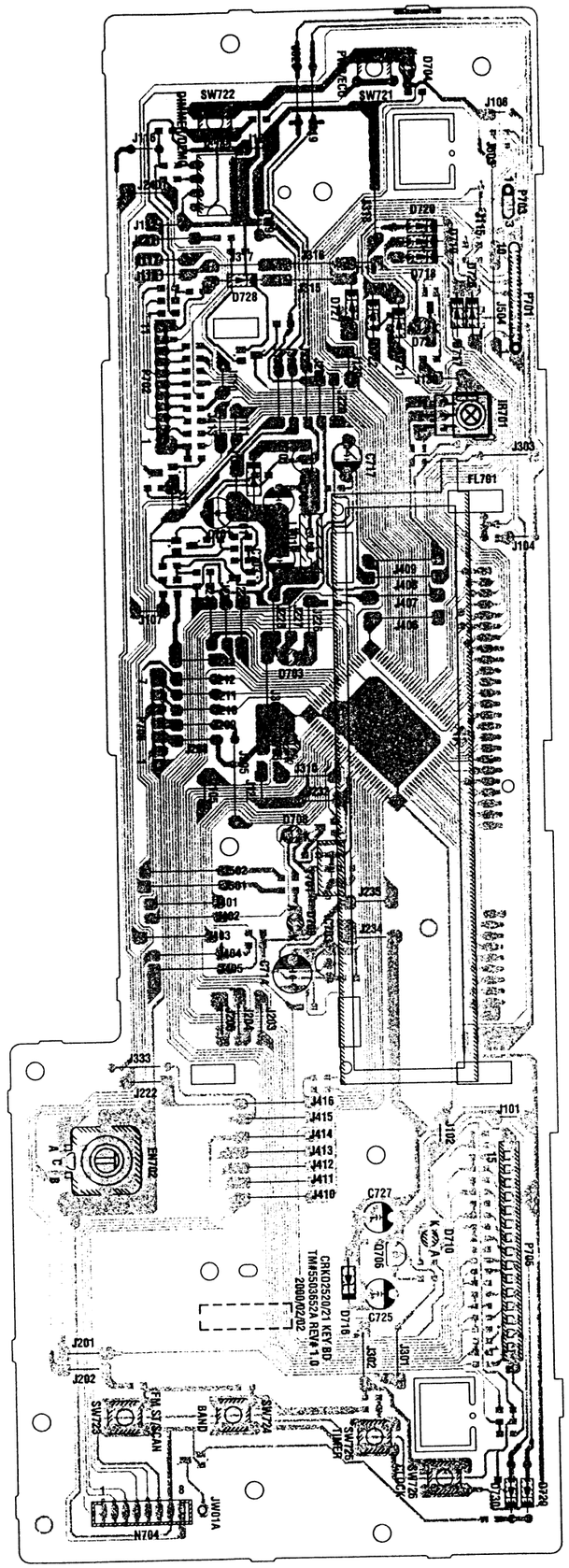


UR - BEDIENTEIL / ANZEIGE SCHALTBILD - SCHEMA COMANDI / INDICATORE -

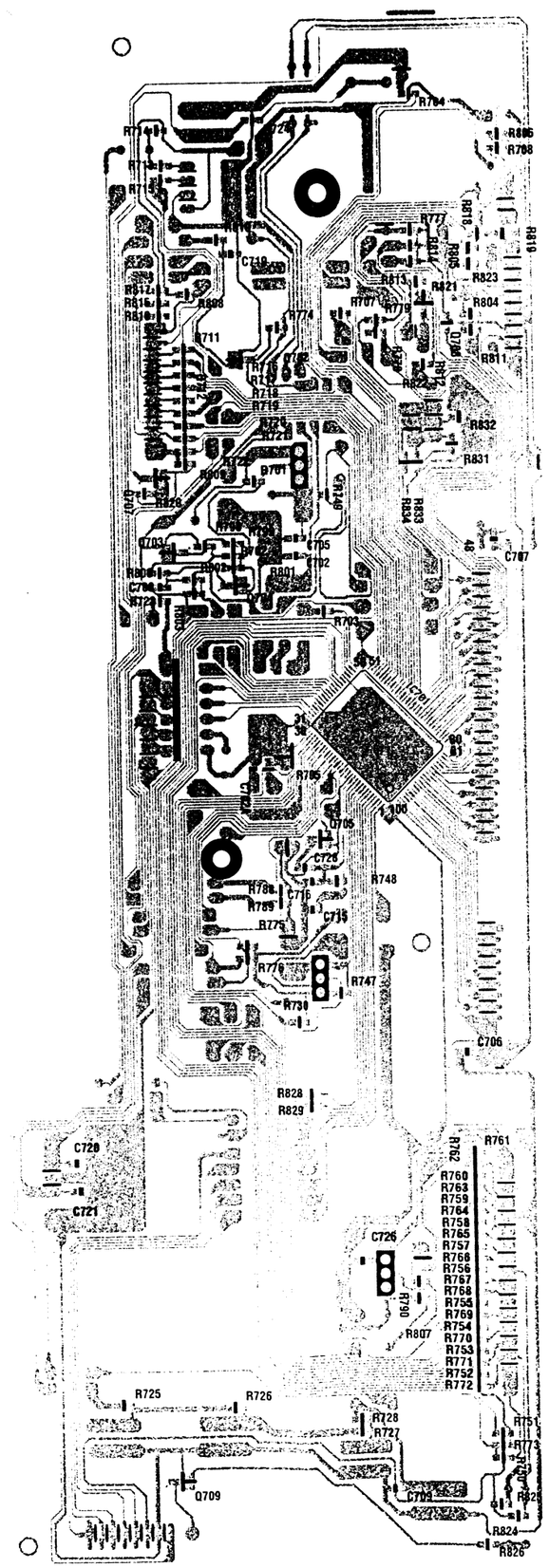


Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes

Control / display P.C.B.
Platine commandes / afficheurs
Ltpl. Bedienteil / Anzeige
Piastra comandi / indicatore
Platina de mandos / indicadores

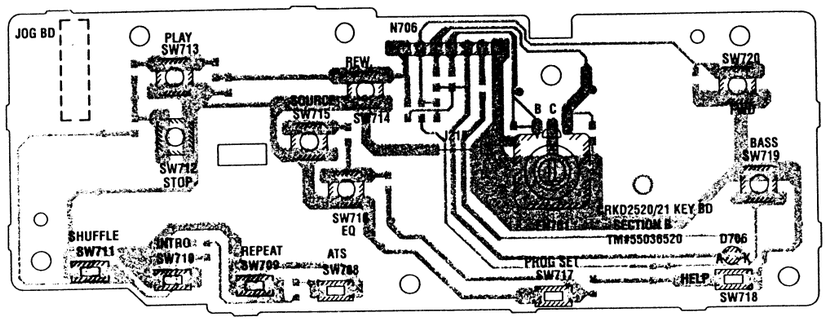


Solder side
Côté cuivre
Lötseite
Lato saldature
Lado del cobre

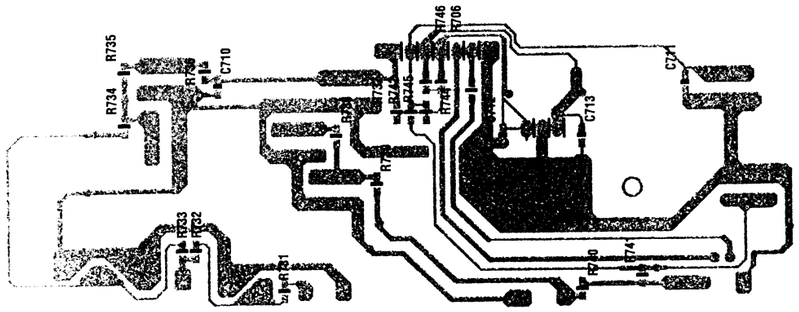


Control P.C.B.
Platine commandes
Ltpl. Bedienteil
Piastra comandi
Platina de mandos

Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes

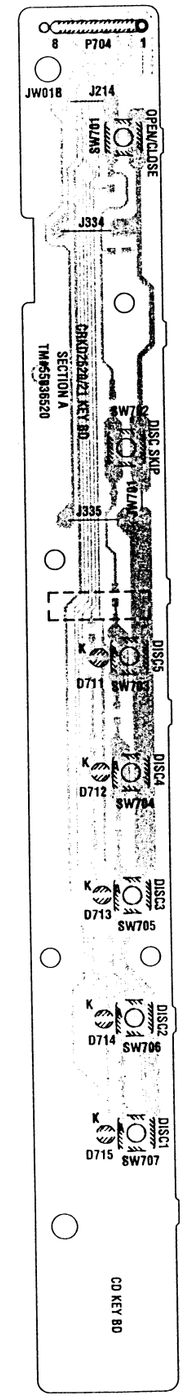


Solder side
Côté cuivre
Lötseite
Lato saldature
Lado del cobre



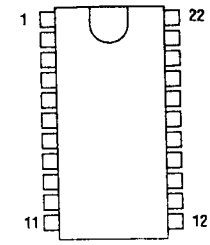
CD control P.C.B.
Platine commandes CD
Ltpl. CD Bedienteil
Piastra comandi CD
Platina de mandos CD

Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes



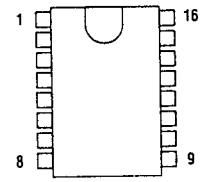
Solder side
Côté cuivre
Lötseite
Lato saldature
Lado del cobre

IC001 AN7238K												
Pin	1	2	3	4	5	6	7	8	9	10	11	VCC
VOL	5.8	0.2	1.5	2.5	5.8	5.8	0	1.2	2.5	2.5	2.4 (.6 ST / MO)	5.8
Pin	12	13	14	15	16	17	18	19	20	21	22	
VOL	2.4	2.4	0.6	4.4 (.6 ST / MO)	4.4 (FM 1.4 / AM)	5.8	5.6	5.8	5.8	4.6 (.7 SD / ND)	5.8	



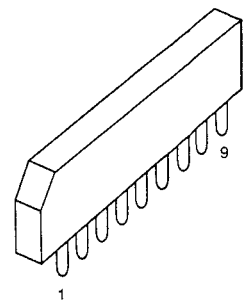
AN7238K

IC002 LM 7001								
Pin	1	2	3	4	5	6	7	8
VOL	1.2	1.8	0	0	4.9	0	12.8	5.6
Pin	9	10	11	12	13	14	15	16
VOL	0.9	1.8	0	6.3	6.3	0	1.2	0



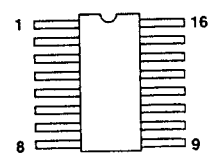
LM 7001

IC003 TA7358P										
PIN	1	2	3	4	5	6	7	8	9	VCC
VOL	0.9	1.6	VCC	1.6	GND	VCC	4.4	4.8	VCC	5.1



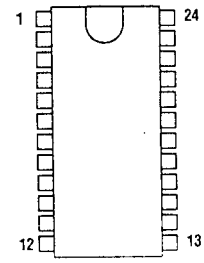
TA7358P

IC004 BU1924F								
Pin	1	2	3	4	5	6	7	8
VOL	2.8	2.8	3	3	5.7	0	0	3
Pin	9	10	11	12	13	14	15	16
VOL	0	0	0	5.7	2.6	2.6	0	2.8



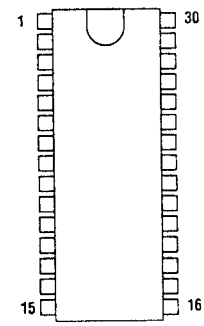
BU1924F

IC300 AN7348K												
Pin	1	2	3	4	5	6	7	8	9	10	11	12
PLAY A	0	0.7	3.9	3.9	3.2	0	0	0.1	0	0	4.9	0
PLAY B	0	0.7	3.9	3.9	3.2	2.8	0	0.1	0	1.4	4.9	0
PLAY/REC	0	0.7	3.9	3.9	3.2	0	0	0.1	0	0	4.9	0
EXT/REC	0	0.7	3.9	3.9	3.2	0	0	0.1	0	0	4.9	0
Pin	13	14	15	16	17	18	19	20	21	22	23	24
PLAY A	6.8	0	0	0	0	0	0.2	3.1	3.8	0.7	0	0
PLAY B	6.8	0	0	0	0	0	0.2	3.1	3.8	0.7	0	0
PLAY/REC	2.1	0.7	3.8	3.2	2.8	0	3.2	3.2	1.4	3.9	4.9	0
EXT/REC	2.1	0.7	3.8	3.2	2.8	0	3.2	3.2	0	3.9	4.9	0



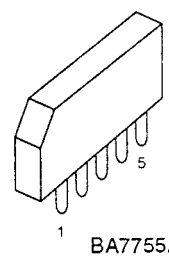
AN7348K

IC301 TDA 7435															
Pin	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
PLAY A PLAY B	4.9	3.5	7	0	2.8	2.8	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
PLAY/REC	4.9	3.5	7	0	2.8	2.8	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Pin	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
PLAY A PLAY B	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	0	0
PLAY/REC	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	0	0



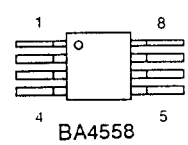
TDA 7435

IC302 BA7755A					
PIN	1	2	3	4	5
PLAY A PLAY B	7.2	0	0	0	0
PLAY/REC	7.2	0.7	0	2.7	0



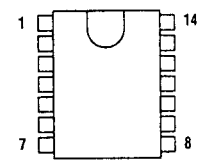
BA7755A

IC451 - 452 BA4558								
PIN	1	2	3	4	5	6	7	8
PLAY A PLAY B	3.8	3.8	3.8	0	3.8	3.8	3.8	7.5
PLAY/REC	3.8	3.8	3.8	0	3.8	3.8	3.8	7.5



BA4558

IC453 BU4066BC							
PIN	1	2	3	4	5	6	7
PLAY A PLAY B	3.8	3.8	3.8	3.8	0	7.7	0
PIN	8	9	10	11	12	13	14
PLAY/REC	3.8	3.8	3.8	3.8	7.7	0	7.7



BU4066BC

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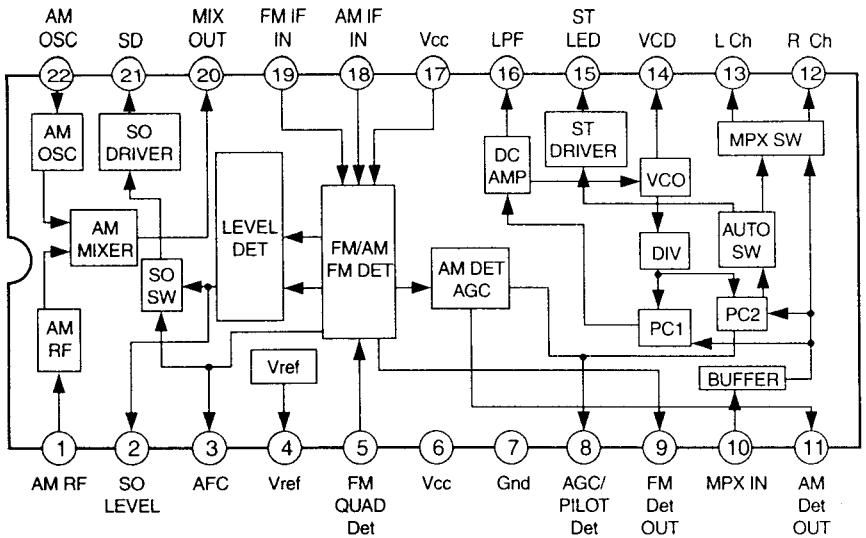
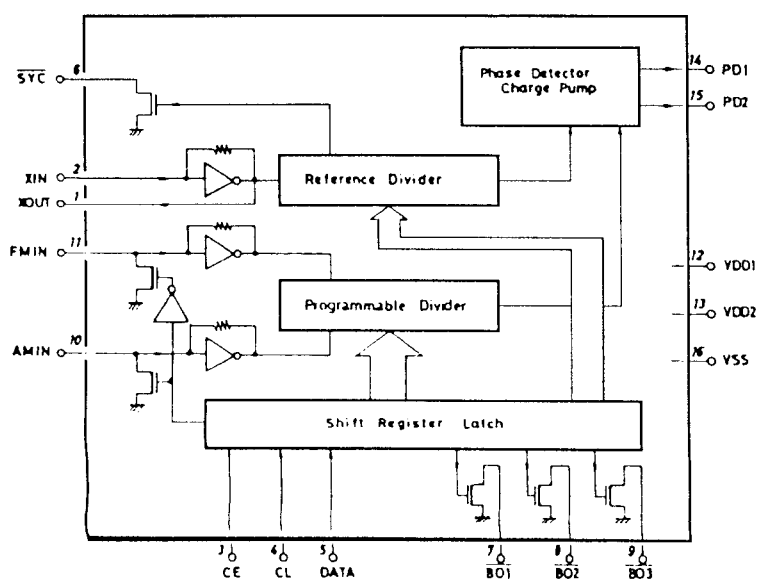
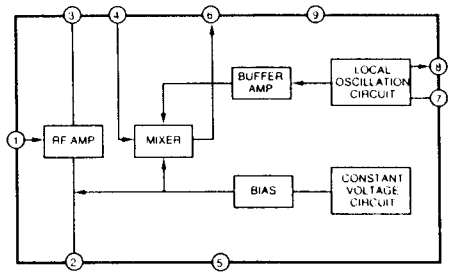


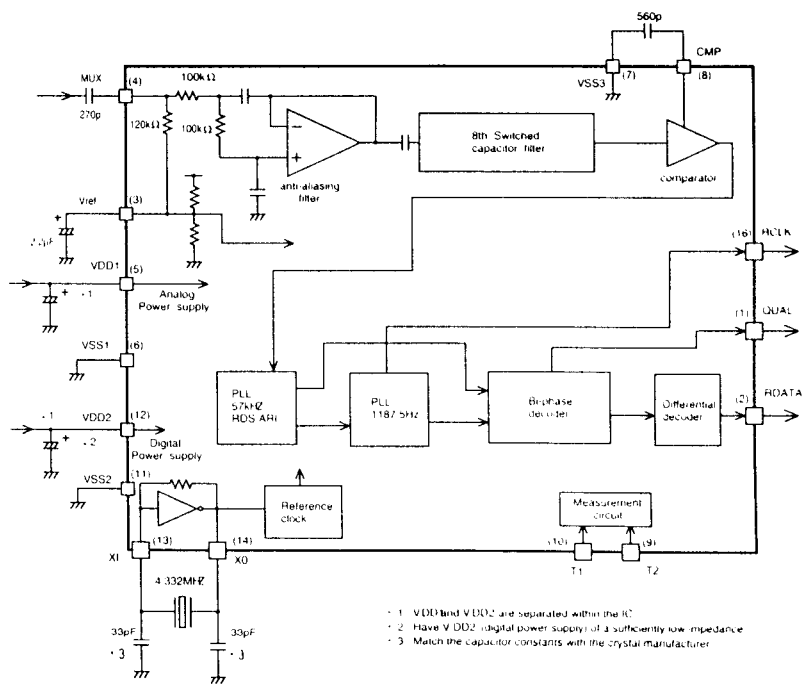
IC002 LM 7001

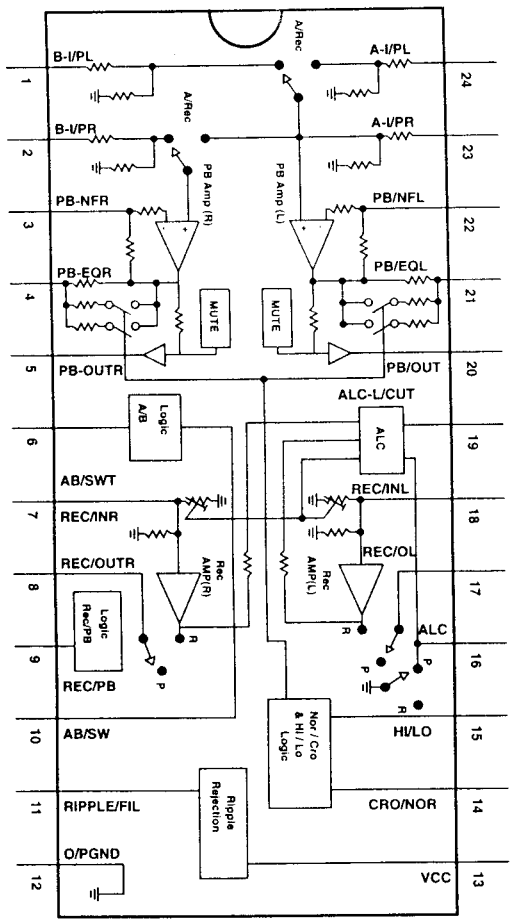


IC003 TA7358P



IC004 BU 1924F




A/Rec
B-I/PL
A-I/PL
B-I/PR
A-I/PR
PB Amp (R)
PB Amp (L)
PB-NFR
PB/NFL
PB-EQR
PB/EQL
MUTE
MUTE
PB-OUTR
PB/OUT
ALC-L/CUT
Logic A/B
ALC
AB/SWT
REC/INL
REC/INR
REC/OUTR
REC/OL
Rec AMP(R)
Rec AMP(L)
Logic Rec/PB
ALC
REC/PB
AB/SW
Nor / Cro & Hi / Lo Logic
HI/LO
RIPPLE/FIL
Ripple Rejection
CRO/NOR
O/PGND
VCC
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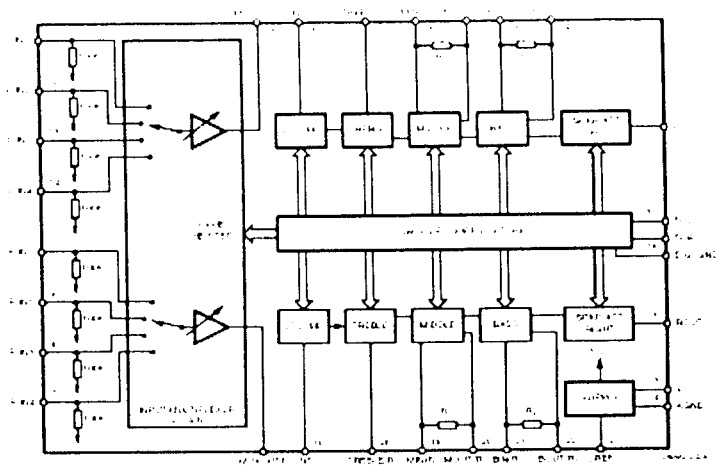

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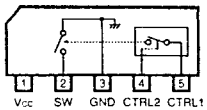
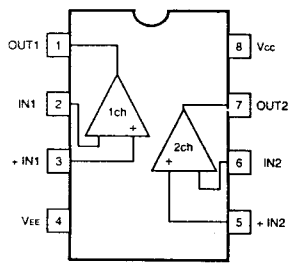


IC 451 - 452 BA4558F



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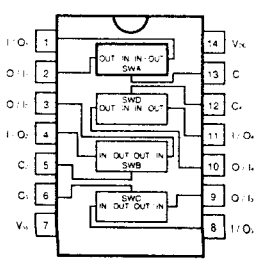
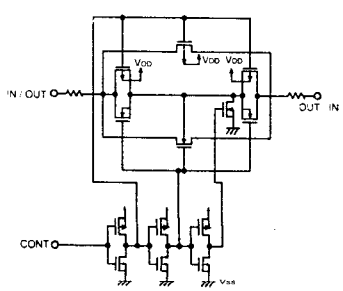
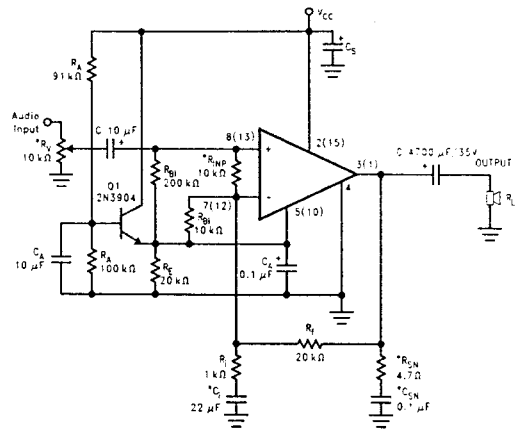
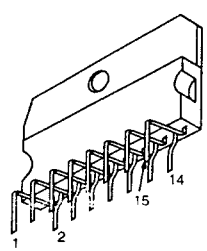




IC501 LM1876T





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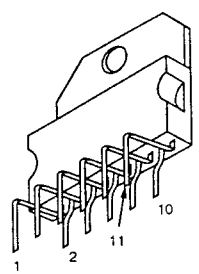

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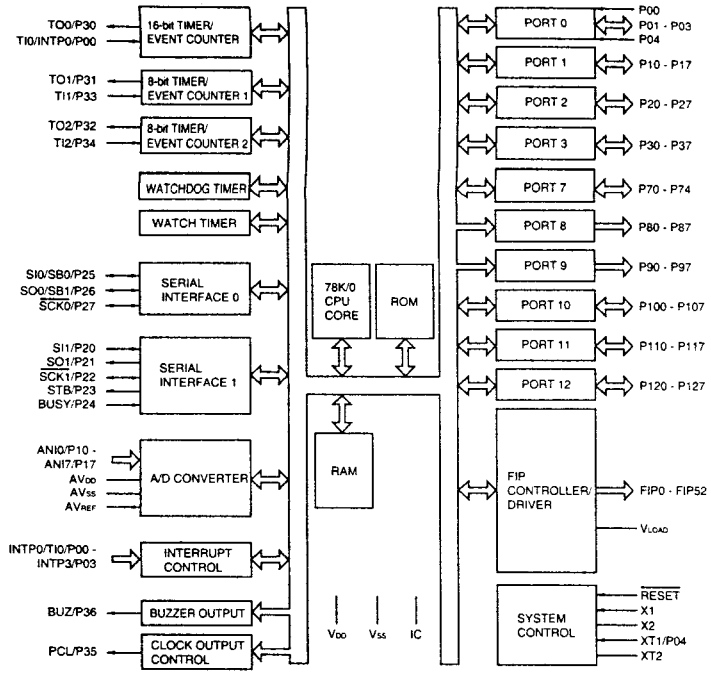

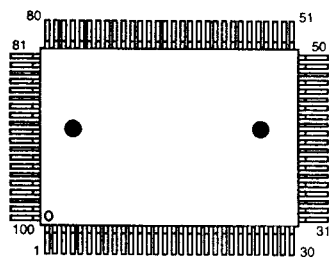

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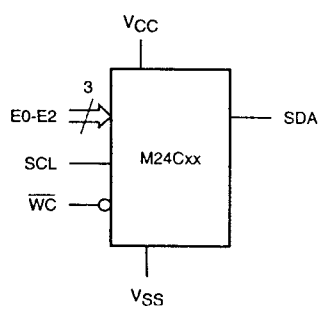
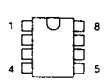
IC702 M24C01BN6





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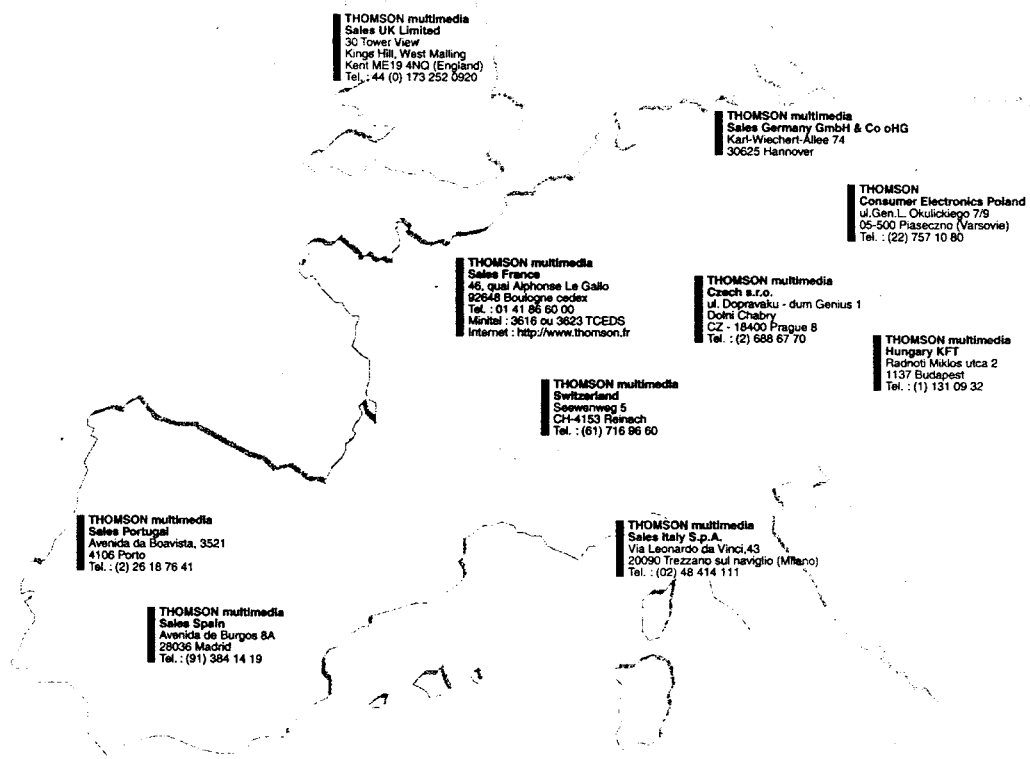

THOMSON multimedia
Scandinavia AB
Florettgatan 29 C
S-25467 Helsingborg (Sweden)
Tel. : 042 25 75 00

THOMSON multimedia
Sales UK Limited
30 Tower View
Kings Hill, West Malling
Kent ME19 4NQ (England)
Tel. : 44 (0) 173 252 0920

THOMSON multimedia
Sales Germany GmbH & Co oHG
Karl-Wiechert-Allee 74
30625 Hannover

THOMSON
Consumer Electronics Poland
ul.Gen.L. Okulickiego 7/9
05-500 Piaseczno (Varsovie)
Tel. : (22) 757 10 80

THOMSON multimedia
Sales France
46, quai Alphonse Le Gallo
92648 Boulogne cedex
Tel. : 01 41 86 50 00
Minitel : 3616 ou 3623 TCEDS
Internet : http://www.thomson.fr

THOMSON multimedia
Czech s.r.o.
ul. Dopravaku - dum Genius 1
Dolni Chabry
CZ - 18400 Prague 8
Tel. : (2) 688 67 70

THOMSON multimedia
Hungary KFT
Radnoti Miklos utca 2
1137 Budapest
Tel. : (1) 131 09 32

THOMSON multimedia
Switzerland
Seewenweg 5
CH-4153 Reinach
Tel. : (61) 716 86 60

THOMSON multimedia
Sales Portugal
Avenida da Boavista, 3521
4106 Porto
Tel. : (2) 26 18 76 41

THOMSON multimedia
Sales Italy S.p.A.
Via Leonardo da Vinci,43
20090 Trezzano sul naviglio (Milano)
Tel. : (02) 48 414 111

THOMSON multimedia
Sales Spain
Avenida de Burgos 8A
28036 Madrid
Tel. : (91) 384 14 19

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